

S/N 10/763,625

Response to Office Action Dated 14 August 2006

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In the Claims

1. 1—37 (Cancel)

38. (Currently Amended.) A coated substrate configured for printing a toner image thereon, comprising:

a paper substrate;

an underlayer coating, applied directly on the substrate, wherein the underlayer coating comprises amine terminated polyamide; and

an overlayer coating, applied directly on the underlayer coating, comprising a polymer material to which the toner image can be fused and fixed.

39. (Cancel.)

40. (Previously Presented.) The coated substrate according to claim 38 wherein the overlayer coating is free of particulate matter.

41. (Previously Presented.) The coated substrate according to claim 38 wherein the polymer material comprises styrene butadiene copolymer.

42. (Previously Presented.) The coated substrate according to claim 38 wherein the polymer material comprises ethylene acrylic acid copolymer.

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2 43. (Withdrawn.) A print media for printing a toner image thereon,
3 comprising:

4 a substrate coated with an underlayer having a high affinity for the
5 substrate, and an overlayer having a high affinity for toner, wherein the underlayer
6 and the overlayer have high affinity for each other;

7 wherein the underlayer is applied directly to the substrate and comprises
8 amine terminated polyamide; and

9 wherein the overlayer is applied directly to the underlayer and comprises a
10 polymer material defining an outer surface to which the toner image can be fused
11 and fixed.
12

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14 44. (Withdrawn.) The print media according to claim 43, wherein the
15 substrate is selected from among a group of substrates comprising polyethylene,
16 vinyl, paper, polyethylene terephthalate (PET), BOPP (biaxially oriented
17 polypropylene film) and polycarbonate.
18

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20 45. (Withdrawn.) The print media according to claim 43 wherein the
21 underlayer is free of particulate matter.
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23 46. (Withdrawn.) The print media according to claim 43 wherein the
24 overlayer comprises styrene butadiene copolymer.
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2 47. (Withdrawn.) The print media according to claim 43 wherein the
3 overlayer comprises ethylene acrylic acid copolymer.
4

5 48. (Withdrawn.) A method of producing a coated substrate to which a
6 toner image can be adhered, comprising:
7

8 coating a substrate with an underlayer comprising amine terminated
9 polyamide; and
10

11 coating the underlayer with a polymer material to form an overlayer on the
12 underlayer, wherein the overlayer has a high affinity for the underlayer and an
13 outer surface to which the toner image can be applied.
14

15 49. (Withdrawn.) The method of claim 48, wherein coating the
16 substrate comprises:
17

18 coating a paper substrate.
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20 50. (Withdrawn.) The method of claim 48, wherein coating the
21 substrate comprises:
22

23 coating a plastic sheet substrate.
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1 51. (Withdrawn.) The method of claim 48, wherein coating the
2 substrate comprises applying 0.1 to 0.3 grams of solids to the substrate per square
3 meter of the substrate.
4

5 52. (Withdrawn.) The method of claim 48, wherein coating the
6 substrate comprises:

7 mixing a 19-to-1 ratio of 1-Propanal to Macromelt 6239 (Henkel);

8 stirring the mixture; and

9 heating the mixture to between 40 degrees C. and 50 degrees C., until a
10 homogeneous and clear 5% solids solution is obtained.
11

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13 53. (Withdrawn.) The method of claim 48, wherein coating the
14 substrate comprises:

15 coating the substrate with a partial solids solution; and

16 letting the partial solids solution dry.
17

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19 54. (Withdrawn.) The method of claim 53, wherein the partial solids
20 solution is a 5% solids solution.
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1 55. (Withdrawn.) The method of claim 48, wherein coating the
2 underlayer comprises:

3 combining deionized water and isopropyl alcohol to form a mixture;

4 cooling the mixture; and

5 adding the mixture to a dispersion of MP 4990.
6

7 56. (Withdrawn.) The method of claim 55, wherein the dispersion of
8 MP 4990 is in a range of 32% to 35%.
9

10
11 57. (Withdrawn.) The method of claim 48, wherein coating the
12 underlayer comprises:

13 applying 0.3 to 0.5 grams of the polymer material per square meter of
14 underlayer.
15

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17 58. (Withdrawn.) The method of claim 48, wherein coating the
18 underlayer comprises:

19 drying the underlayer before applying the outerlayer.
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